



MESA POLICE COMMUNICATIONS MOBILE DISPATCH TRAILER

Update to the SIEC

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Mesa Police Communications Emergency Dispatch Trailer

In 2009 Mesa Police received a UASI grant to develop a mobile communications dispatch trailer.

The trailer will be equipped with:

- ▣ A stand-alone 6 channel 700MHz trunked radio site
- ▣ Dispatch positions for up to 5 dispatchers
- ▣ CAD connectivity to the Mesa Police CAD system
- ▣ Motobridge dispatch and gateway device

Radio Equipment Capabilities

- ▣ Six channel 700MHz stand alone radio system
 - Motorola GTR trunked system
 - Stays in site trunking
- ▣ 7/800MHz control stations
 - Eight control stations with all AIRS regions programmed
- ▣ VHF/UHF control stations
 - Six control stations with all AIRS regions programmed

Still waiting for FCC licensing for the GTR system.

Gateway Capabilities

- ▣ Motobridge system
 - Provides dispatch console capabilities similar to Motorola Gold Elite or MCC 7500 consoles at each of the five dispatch positions
 - Gateway capable of patching any of the control stations in the trailer.

The Motobridge is still being installed. Completion expected by 3/1/2011

Dispatch Capabilities

- ▣ Five dispatch positions possible
 - Staffed by Mesa Police Communications staff
- ▣ Each position will have a CAD terminal
 - Mesa PD CAD (Intergraph)
 - Tied to the Mesa system through air cards
 - If unable to connect to the system, dispatchers will use manual dispatch procedures

Dispatch computers being built up. Anticipated in-service by mid-February.

Current Roadblocks

The MPD Communications trailer build is mostly complete. Speed-bumps that have slowed down the build include: incorrect cabling sent by vendors; antenna wiring changes require larger pass-through holes in the roof; delays in delivery of computers (non grant funded).

The most significant roadblock is the FCC and licensing the radio channels identified by the SIEC for the trunked repeater system.

FCC Issues

The FCC has denied a license to use six (6) Interoperable 700MHz frequencies in a single mobile trunked system based on rule 90.531(b)(1)(iii).

A waiver was requested on 12/14/2010 and is still awaiting action by the FCC.

If the waiver is not approved, Mesa will apply for 700MHz licenses through the RPC.

Testing Pending Licensing

Upon receiving frequency licensing for the GTR radio site, Mesa Police will begin conducting testing of the radio system to determine true coverage expectations in metropolitan and rural areas.

Coverage prediction maps indicate a 5-10 mile radius based on tower height, power, etc., but that prediction needs to be confirmed.

Next Steps

- ▣ Mesa PSC will be working with the PHX UASI and PSIC to develop deployment guidelines, SOP's and radio templates.
- ▣ Soft Key programming for APX radios is problematic at this time
 - Working with Motorola to identify solutions to this issue.
- ▣ Final programming will include the National Interoperable channels.



Mesa Police will be providing updates on real-world coverage testing as soon as those results become available.

Questions?